

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2013 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>ST0005</b>	Overall LMA Rating	Total LMA Miles						
<b>Sutter Maintenance Yard Hamilton Bend</b>	<b>U</b>	<b>3.22</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Trim / Thin Trees	1.95		1.95	60.56%				
Crown Surface / Depressions / Rutting	0.01		0.01	0.31%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.20			
<i>LMA Totals:</i>	1.96	0.00	1.96	60.87%	0.20	0.00	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2013 Levee Inspection Results**

**Sutter Maintenance Yard Hamilton Bend**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2013 Levee Inspection Results**

**Sutter Maintenance Yard Hamilton Bend**

Waterway			Bank	Unit Miles
Unit No. 01 Feather River Hamilton Bend			Right	3.22
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	04/23/2013 - 04/23/2013		10/21/2013 - 10/21/2013	
DWR Inspector	Rick Burnett		Matthew Hoffman	
Accompanied By	Jason Cooper Sutter Maintenance Yard		Jason Cooper Sutter Maintenance Yard	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Sutter Maintenance Yard Hamilton Bend**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Feather River Hamilton Bend							Right	3.22	10/21/2013 10/21/2013	Matthew Hoffman	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End	Photo	
1			Earthen Levee	Operations & Maintenance Manuals	CR	A Ma		°	°	7	
								°	°		
DWR ID: DWR_ST0005_01_s_2013_7											
2			Earthen Levee	Emergency Supplies & Equipment	CR	A Ma		°	°	8	
								°	°		
DWR ID: DWR_ST0005_01_s_2013_8											
3			Earthen Levee	Flood Preparedness & Training	CR	A Ma		°	°	9	
								°	°		
DWR ID: DWR_ST0005_01_s_2013_9											
4	0.36	0.36	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Repair depressions or ruts in the crown or slope.	39.444939 ° -121.641780 °	39.444939 ° -121.641780 °	2 Y	
DWR ID: DWR_ST0005_01_s_2013_2											
5	0.80	0.80	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:7961 EP_NO: 927 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: low spot on WS slope; sink hole or section dug-unable to tell; hole on levee toe. FIELD_STRUCT_DESC: Abandoned 10-inch steel pipe through the levee 10.4 feet below the crown. (Permit No. 927) FS Date: 11/14/2012	39.451078 ° 39.451078 °	-121.640773 ° -121.640773 °	1	
DWR ID: DWR_ST0005_01_f_2013_1											
6	0.80	0.80	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:8363 EP_NO: 927 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: low spot on WS slope; sink hole or section dug-unable to tell; hole on levee toe. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_HAM1_2010_a_0029 no issues reported. FIELD_STRUCT_DESC: Abandoned 10-inch steel pipe through the levee 10.4 feet below the crown. (Permit No. 927) FS Date: 11/14/2012	39.451078 ° 39.451078 °	-121.640773 ° -121.640773 °	3 Y	
DWR ID: DWR_ST0005_01_f_2013_3											
7	0.80	0.80	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:7943 EP_NO: 927 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: low spot on WS slope; sink hole or section dug-unable to tell; hole on levee toe. FIELD_STRUCT_DESC: Abandoned 10-inch steel pipe through the levee 10.4 feet below the crown. (Permit No. 927) FS Date: 11/14/2012	39.451078 ° 39.451078 °	-121.640773 ° -121.640773 °	10	
DWR ID: DWR_ST0005_01_f_2013_10											

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Sutter Maintenance Yard Hamilton Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.22	10/21/2013 10/21/2013	Matthew Hoffman

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

8	0.80	0.80	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:13237 EP_NO: 927 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: low spot on WS slope; sink hole or section dug-unable to tell; hole on levee toe. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_HAM1_2010_a_0029 no issues reported.5/14/2013 SBFCA project recommends removal.5/14/2013 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 10-inch steel pipe through the levee 10.4 feet below the crown. (Permit No. 927) FS Date: 5/14/2013 12:46:25 PM	39.451078 ° -121.640773 ° 39.451078 ° -121.640773 °	11
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DWR ID: DWR\_ST0005\_01\_f\_2013\_11

9	1.04	1.04	Earthen Levee	Encroachments	CR A/W	En	BU : Building Inspector Comments: Abandoned inlet structure.	39.454464 ° 39.454464 ° -121.640361 ° -121.640361 °	28 Y
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DWR ID: DWR\_ST0005\_01\_f\_2013\_28

10	1.05	1.05	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:7948 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: abandoned WS gates closed; handles broken FIELD_STRUCT_DESC: Abandoned Sutter Butte Canal head gate structure, 1 of 6 culverts, 6 by 8 foot concrete culvert 35.8 feet below the crown. Stems on gates are removed and gates are in a closed position. No crossing at the canal, go back to levee mile 0.95. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 47+00). (USACE O&M Manual, 1957) FS Date: 11/14/2012	39.454557 ° -121.640274 ° 39.454557 ° -121.640274 °	12
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DWR ID: DWR\_ST0005\_01\_f\_2013\_12

11	1.05	1.05	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:8662 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: abandoned WS gates closed; handles broken; Structure needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_HAM1_2010_a_0043 no issues reported. FIELD_STRUCT_DESC: Abandoned Sutter Butte Canal head gate structure, Six 6 by 8 foot concrete culvert 35.8 feet below the crown. Stems on gates are removed and gates are in a closed position. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 47+00). (USACE O&M Manual, 1957) FS Date: 11/14/2012	39.454557 ° -121.640274 ° 39.454557 ° -121.640274 °	13 Y
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DWR ID: DWR\_ST0005\_01\_f\_2013\_13

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Sutter Maintenance Yard Hamilton Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.22	10/21/2013 10/21/2013	Matthew Hoffman

LMR No.	Levee Mile		Category	Item	* Location	Rating + + +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

12	1.05	1.05	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:13240 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: abandoned WS gates closed; handles broken; Structure needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_HAM1_2010_a_0043 no issues reported.5/14/2013 SBFCA project report says the structure will need to be removed and the levee built back up in its place. MHM will include demo plan and levee civil will prepare plans for new levee.5/14/2013 Same as last inspection. FIELD_STRUCT_DESC: Abandoned Sutter Butte Canal head gate structure, Six 6 by 8 foot concrete culvert 35.8 feet below the crown. Stems on gates are removed and gates are in a closed position. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 47+00). (USACE O&M Manual, 1957) FS Date: 5/14/2013 12:51:18 PM	39.454557 ° -121.640274 ° 39.454557 ° -121.640274 °	14
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DWR ID: DWR\_ST0005\_01\_f\_2013\_14

13	1.05	1.05	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:13241 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: abandoned WS gates closed; handles broken; Structure needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_HAM1_2010_a_0043 no issues reported.5/14/2013 Same as last inspection. FIELD_STRUCT_DESC: Abandoned Sutter Butte Canal head gate structure, Six 6 by 8 foot concrete culvert 35.8 feet below the crown. Stems on gates are removed and gates are in a closed position. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 47+00). (USACE O&M Manual, 1957) FS Date: 5/14/2013 12:56:41 PM	39.454557 ° -121.640274 ° 39.454557 ° -121.640274 °	15
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DWR ID: DWR\_ST0005\_01\_f\_2013\_15

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Sutter Maintenance Yard Hamilton Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.22	10/21/2013 10/21/2013	Matthew Hoffman

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

14	1.05	1.05	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:8364 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: abandoned WS gates closed; handles broken; This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_HAM1_2010_a_0043 no issues reported. FIELD_STRUCT_DESC: Abandoned Sutter Butte Canal head gate structure, 1 of 6 culverts, 6 by 8 foot concrete culvert 35.8 feet below the crown. Stems on gates are removed and gates are in a closed position. No crossing at the canal, go back to levee mile 0.95. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 47+00). (USACE O&M Manual, 1957) FS Date: 11/14/2012	39.454557 ° -121.640274 ° 39.454557 ° -121.640274 °	16
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DWR ID: DWR\_ST0005\_01\_f\_2013\_16

15	1.15	1.15	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:7950 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: top of slide gate visible from levee; slide gate buried FIELD_STRUCT_DESC: Abandoned 24-inch pipe through the levee 16.5 feet below the crown. Slide gate in CM riser on the waterward slope. FS Date: 11/14/2012	39.455926 ° -121.639660 ° 39.455926 ° -121.639660 °	17
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DWR ID: DWR\_ST0005\_01\_f\_2013\_17

16	1.17	1.17	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:13238 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned structure: Structure is non-operational, slide gate is completely buried; top of slide gate barely visible from levee; 5/14/2013 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch pipe through the levee 16.5 feet below the crown. Slide gate in CM riser on the waterward slope. No features of structure were found with the exception of slide gate frame. FS Date: 5/14/2013 12:48:22 PM	39.456287 ° -121.639530 ° 39.456287 ° -121.639530 °	18 Y
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DWR ID: DWR\_ST0005\_01\_f\_2013\_18

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Sutter Maintenance Yard Hamilton Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.22	10/21/2013 10/21/2013	Matthew Hoffman

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
17	1.17	1.17	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:7962 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned structure: Structure is non-operational, slide gate is completely buried; top of slide gate barely visible from levee; FIELD_STRUCT_DESC: Abandoned 24-inch pipe through the levee 16.5 feet below the crown. Slide gate in CM riser on the waterward slope. No features of structure were found with the exception of slide gate frame. FS Date: 11/14/2012	39.456287 ° -121.639530 ° 39.456287 ° -121.639530 °		19
DWR ID: DWR_ST0005_01_f_2013_19										
18	1.17	1.17	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:7955 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: top of slide gate visible from levee; slide gate buried FIELD_STRUCT_DESC: Abandoned 24-inch pipe through the levee 16.5 feet below the crown. Slide gate in CM riser on the waterward slope. FS Date: 11/14/2012	39.456287 ° -121.639530 ° 39.456287 ° -121.639530 °		20
DWR ID: DWR_ST0005_01_f_2013_20										
19	1.41	3.18	Earthen Levee	Trim / Thin Trees	LS	M Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	39.458060 ° -121.636332 °	39.470433 ° -121.609200 °	4 Y
DWR ID: DWR_ST0005_01_s_2013_4										
20	1.44	1.62	Earthen Levee	Trim / Thin Trees	WS	M Ma	T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.	39.458255 ° -121.635808 °	39.459451 ° -121.633670 °	5 Y
DWR ID: DWR_ST0005_01_s_2013_5										
21	2.04	2.12	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	39.462914 ° -121.627650 °	39.463526 ° -121.626435 °	6
DWR ID: DWR_ST0005_01_s_2013_6										
22	3.16	3.16	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:7954 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned Structure: WS- reminence of gates and concrete standpipe; LS-reminence of concrete headwall and pump station. FIELD_STRUCT_DESC: Abandoned western canal head gate inlet structure. One (1) of 2 culverts, 8 by 8-foot concrete culverts through the levee 25.0 feet below the crown. Three slide gates on the waterward end. Concrete stairs on the waterward slope. Concrete headwall at both toes. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 170+00). (USACE O&M Manual, 1957) FS Date: 11/14/2012	39.469686 ° -121.610365 ° 39.469686 ° -121.610365 °		21
DWR ID: DWR_ST0005_01_f_2013_21										

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Sutter Maintenance Yard Hamilton Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.22	10/21/2013 10/21/2013	Matthew Hoffman

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

23	3.17	3.17	Supplemental	DWR UCIP Field Study	CR	M En	<p>Inspector Comments: FS_ID:7964 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned Structure: WS- reminence of gates and concrete standpipe; LS-reminence of concrete headwall and pump station. FIELD_STRUCT_DESC: Abandoned western canal head gate inlet structure. Two (2) of 2 culverts, 8 by 8-foot concrete culverts through the levee 25.0 feet below the crown. Three slide gates on the waterward end. Concrete stairs on the waterward slope. Concrete headwall at both toes. This entry matches the Drainage or Irrigation Structure referenced in O&amp;M manual (Historic Station 170+00). (USACE O&amp;M Manual, 1957) FS Date: 11/14/2012</p>	39.470269 ° -121.609229 ° 39.470269 ° -121.609229 °	22
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DWR ID: DWR\_ST0005\_01\_f \_ 2013\_22

24	3.17	3.17	Supplemental	DWR UCIP Field Study	CR	M En	<p>Inspector Comments: FS_ID:7963 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned Structure: WS- reminence of gates and concrete standpipe; LS-reminence of concrete headwall and pump station. FIELD_STRUCT_DESC: Abandoned western canal head gate inlet structure. One (1) of 2 culverts, 8 by 8-foot concrete culverts through the levee 25.0 feet below the crown. Three slide gates on the waterward end. Concrete stairs on the waterward slope. Concrete headwall at both toes. This entry matches the Drainage or Irrigation Structure referenced in O&amp;M manual (Historic Station 170+00). (USACE O&amp;M Manual, 1957) FS Date: 11/14/2012</p>	39.470269 ° -121.609229 ° 39.470269 ° -121.609229 °	23 Y
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DWR ID: DWR\_ST0005\_01\_f \_ 2013\_23

25	3.17	3.17	Supplemental	DWR UCIP Field Study	CR	M En	<p>Inspector Comments: FS_ID:13243 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned Structure: WS- reminence of gates and concrete standpipe; LS-reminence of concrete headwall and pump station.5/14/2013 Same as last inspection. FIELD_STRUCT_DESC: Abandoned western canal head gate inlet structure. Two (2) of 2 culverts, 8 by 8-foot concrete culverts through the levee 25.0 feet below the crown. Three slide gates on the waterward end. Concrete stairs on the waterward slope. Concrete headwall at both toes. This entry matches the Drainage or Irrigation Structure referenced in O&amp;M manual (Historic Station 170+00). (USACE O&amp;M Manual, 1957) FS Date: 5/14/2013 12:58:44 PM</p>	39.470269 ° -121.609229 ° 39.470269 ° -121.609229 °	24
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DWR ID: DWR\_ST0005\_01\_f \_ 2013\_24

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Sutter Maintenance Yard Hamilton Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.22	10/21/2013 10/21/2013	Matthew Hoffman

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	

26	3.17	3.17	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:13242 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned Structure: WS- reminence of gates and concrete standpipe; LS-reminence of concrete headwall and pump station.5/14/2013 Same as last inpection. FIELD_STRUCT_DESC: Abandoned western canal head gate inlet structure. One (1) of 2 culverts, 8 by 8-foot concrete culverts through the levee 25.0 feet below the crown. Three slide gates on the waterward end. Concrete stairs on the waterward slope. Concrete headwall at both toes. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 170+00). (USACE O&M Manual, 1957) FS Date: 5/14/2013 12:57:57 PM	39.470269 ° -121.609229 ° 39.470269 ° -121.609229 °	25
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DWR ID: DWR\_ST0005\_01\_f\_2013\_25

27	3.17	3.17	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:7953 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned Structure: WS- reminence of gates and concrete standpipe; LS-reminence of concrete headwall and pump station. FIELD_STRUCT_DESC: Abandoned western canal head gate inlet structure. Two (2) of 2 culverts, 8 by 8-foot concrete culverts through the levee 25.0 feet below the crown. Three slide gates on the waterward end. Concrete stairs on the waterward slope. Concrete headwall at both toes. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 170+00). (USACE O&M Manual, 1957) FS Date: 11/14/2012	39.470269 ° -121.609229 ° 39.470269 ° -121.609229 °	26
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DWR ID: DWR\_ST0005\_01\_f\_2013\_26

28	3.17	3.17	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:7956 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned Structure: WS- reminence of gates and concrete standpipe; LS-reminence of concrete headwall and pump station. FIELD_STRUCT_DESC: Abandoned western canal head gate inlet structure. One (1) of 2 culverts, 8 by 8-foot concrete culverts through the levee 25.0 feet below the crown. Three slide gates on the waterward end. Concrete stairs on the waterward slope. Concrete headwall at both toes. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 170+00). (USACE O&M Manual, 1957) FS Date: 11/14/2012	39.470269 ° -121.609229 ° 39.470269 ° -121.609229 °	27
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DWR ID: DWR\_ST0005\_01\_f\_2013\_27

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Sutter Maintenance Yard Hamilton Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.22	10/21/2013 10/21/2013	Matthew Hoffman

Levee Mile Report Line	4
Start Levee Mile	0.36
End Levee Mile	0.36
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Deep rut in crown. Repair prior to flood season.

mhoffman\_f\_20130917\_136.JPG



Levee Mile Report Line	6
Start Levee Mile	0.80
End Levee Mile	0.80
Location	Crown
Category	Supplemental
Item	DWR UCIP Field Study

View of ditch and pipe running along landward side.

UCIP\_4559.jpg



Levee Mile Report Line	9
Start Levee Mile	1.04
End Levee Mile	1.04
Location	Crown
Category	Earthen Levee
Item	Encroachments

This photo was taken facing north looking down the levee crown at an old inlet structure. Fall 2013.

mhoffman\_f\_20131028\_680.JPG



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Sutter Maintenance Yard Hamilton Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.22	10/21/2013 10/21/2013	Matthew Hoffman

Levee Mile Report Line	11
Start Levee Mile	1.05
End Levee Mile	1.05
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

View of concrete structure, Photo 1 of 2.

UCIP\_4985.jpg



Levee Mile Report Line	16
Start Levee Mile	1.17
End Levee Mile	1.17
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

View of landward side looking upstream at crossing.

UCIP\_7190.jpg



Levee Mile Report Line	19
Start Levee Mile	1.41
End Levee Mile	3.18
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

L/S trees.

mhoffman\_f\_20130917\_137.JPG



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2013**

**Sutter Maintenance Yard Hamilton Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.22	10/21/2013 10/21/2013	Matthew Hoffman

Levee Mile Report Line	20
Start Levee Mile	1.44
End Levee Mile	1.62
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

W/S trees.

mhoffman\_f\_20130917\_138.JPG



Levee Mile Report Line	24
Start Levee Mile	3.17
End Levee Mile	3.17
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Pump station located on landward side.

UCIP\_3671.jpg



* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	N : Not Inspected/Rated	En : Enforcement
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	
	U : Unacceptable	